

2004 WATER USE CONSERVATION PLAN
 (Submitted in accordance with P.A. 451 of 1994, MCL 327.08)

Mail to:
 Michigan Department of Agriculture
 ESD- Water Use Reporting
 P.O. Box 30017
 Lansing, MI 48909



Instructions and additional information requested is located at the end of this document.

1. FARM INFORMATION:

Farm Name: _____ **SAMPLE FORM – NOT FOR REPORTING** _____ Manager/Owner: _____ Phone: _____

Street Address _____ City _____ State _____ Zip Code _____

2. PUMP INFORMATION: COMPLETE THE FOLLOWING FOR EACH PUMP YOU OWN AND/OR OPERATE. DO NOT REPORT WATER FROM MUNICIPAL/PUBLIC WATER SUPPLIES. COMPLETE ADDITIONAL SHEETS AS NECESSARY.

A. PUMP ID AND LOCATION		B. WATER SOURCE <input type="checkbox"/> Groundwater – Static Water Level: _____ ft. _____ in. Date Taken: _____				
Pump ID: _____		<input type="checkbox"/> Surface Water <input type="checkbox"/> Pond Supplied by Well				
County: _____		C-1. WATER USES		C-2. WATER USES		C-3. WATER USES
Twp.: _____		Crop _____ Acres _____ Or		Crop _____ Acres _____ Or		Crop _____ Acres _____ Or
		Other Use _____		Other Use _____		Other Use _____
D. WATER USE BY MONTH						
Jan	Feb	Mar	Apr	May	June	ANNUAL TOTAL: _____
July	Aug	Sept	Oct	Nov	Dec	
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hereby certify under penalty of law (MCL 324.32713) that the foregoing information is accurate and complete.

Signature _____ Date: _____

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2004 WATER USES AND CONSERVATION PRACTICES
(Submitted in accordance with P.A. 451 of 1994, MCL 327.08)
For additional information on water use reporting requirements,
contact Bob Pigg, MDA, 517-373-6893

3. Conservation Practices Implemented

Check the box if the associated practice is used on your farm

System Management

- Measure the amount of water applied accurately
- Monitor pumping plant efficiency
- Maintain the irrigation system regularly to be sure it is in good working condition
- Operate sprinkler systems to minimize drift and off-target application
- Ensure sprinkler nozzle/drip applicator flow rate is matched to the infiltration rate of the soil or medium
- Provide noise control where needed

Record Keeping

- For each crop irrigated, keep records on the crop type and location
- Keep records on the source of the water used
- Record date and amount of each irrigation application or the total amount of water applied to an area
- Keep records on all system inspections and repairs that influence uniformity and leaks
- Regularly calibrate fertigation and chemigation equipment, if used, and maintain records
- Keep records of the results each time the sprinkler system uniformity is evaluated

Irrigation Scheduling

- Know the available soil water for each unit scheduled
- Know the depth of rooting for each crop irrigated
- Use container capacity in scheduling irrigation for container grown nursery or greenhouse crops
- Know the allowable moisture depletion at each stage of crop growth
- Measure, estimate, or use published evapotranspiration data to determine crop water use
- Measure rainfall in each field irrigated and adjust irrigation schedule/amount accordingly

Application Practices

- Choose irrigation application amounts that will avoid surface runoff under sprinkler irrigation
- In the case of container irrigation, runoff is managed through recycling or proper disposal systems
- Assure that sprinkler application rates are below the soil infiltration rate
- When irrigation is used, split nitrogen fertilizer applications
- Incorporate appropriate backflow-prevention safety devices if a chemigation/fertigation system is used
- Avoid applying more water than needed to replace the soil/media moisture deficit

For more information on Irrigation GAAMPs please visit <http://michigan.gov/mda> click on Farming and under Environment click on GAAMPs.

SAMPLE FORM – NOT FOR REPORTING

2004 AGRICULTURAL WATER CONSERVATION PLAN

INSTRUCTIONS

1. **FARM INFORMATION** – PLEASE INCLUDE THE FARM NAME, MANAGER/OWNER, TELEPHONE NUMBER, STREET ADDRESS, CITY, STATE AND ZIP CODE.
2. **PUMP INFORMATION** – PLEASE COMPLETE A SECTION FOR EACH PUMP YOU OWN OR OPERATE. WHEN REPORTING, DO NOT REPORT PUMPS THAT ARE CONNECTED TO MUNICIPAL/PUBLIC WATER SUPPLIES. IF YOU NEED ROOM FOR MORE THAN 5 PUMPS, YOU CAN MAKE MULTIPLE COPIES OF THE SECOND PAGE OF THE FORM.

- A. **PUMP ID AND LOCATION** - PROVIDE THE NAME OR NUMBER YOU USE TO IDENTIFY THE PUMP (I.E., NORTH FIELD, NO. 13, ETC.), WHAT COUNTY AND TOWNSHIP THAT PUMP IS IN.
- B. **WATER SOURCE** – FOR THE PUMP IDENTIFIED IN "A", INDICATE WHETHER THE PUMP IS PUMPING GROUNDWATER, SURFACE WATER (I.E., NATURAL POND, RIVER, LAKE, ETC.) OR POND WATER THAT IS SUPPLIED BY A WELL. STATIC WATER LEVEL IS THE LEVEL OF WATER IN A WELL WHEN NO WATER IS BEING PUMPED. IT IS MEASURED AS THE DISTANCE FROM THE GROUND SURFACE (OR MEASURING POINT NEAR THE GROUND SURFACE) TO THE WATER LEVEL IN THE WELL. IT IS USUALLY READ IN FEET AND INCHES WITH AN ELECTRONIC PROBE AFTER THE WELL HAS BEEN SHUT DOWN FOR SEVERAL HOURS. IF THE WELL DESIGN PREVENTS EASY MEASUREMENT, IT IS RECOMMENDED THAT A PROFESSIONAL WELL DRILLER OR CONSULTANT BE USED SO THAT APPROPRIATE PROCEDURES ARE FOLLOWED AND THE WELL IS NOT CONTAMINATED DURING THE PROCESS OF MEASURING.
- C. **WATER USES** – INDICATE HOW THE WATER IDENTIFIED IN "B" IS BEING USED.

IF IT IS BEING USED FOR IRRIGATION, IN C-1, WRITE IN THE CROP NAME AND THE ACRES OF THAT CROP BEING IRRIGATED BY THE PUMP IDENTIFIED IN "A".

IF MORE THAN ONE CROP IS UNDER IRRIGATION AND BEING SUPPLIED BY THE PUMP IDENTIFIED IN "A", THEN USE THE ADDITIONAL BOXES (C-2, C-3). EXAMPLES INCLUDE: SEED CORN, DRY BEANS, WHEAT, OATS, HAY ALFALFA, SUGAR BEETS, TREE FRUIT, BERRIES, SOD, MINT, MUSTARD, ETC.

IF THE WATER IS BEING USED FOR OTHER PURPOSES, THEN WRITE THAT PURPOSE IN THE "OTHER USE" LINE. OTHER USES INCLUDE, BUT ARE NOT LIMITED TO:

Beef Cattle and Calves	Equipment washing
Dairy Cattle and Calves	Building sanitation
Chickens	Fire suppression
Turkeys	Crop washing
Hogs and Pigs	Greenhouse crops
Sheep and Lambs	Field nursery crops
Fruit crop cooling	Container nursery crops
Water table maintenance	
Aquaculture	

- D. **WATER USE BY MONTH** - COMPLETE THIS SECTION BY INDICATING HOW MUCH WATER WAS PUMPED BY MONTH. THE AMOUNT PUMPED MUST BE PROVIDED IN TOTAL GALLONS (I.E., 130,000, 15,000,000, ETC.). IN THE LAST BOX, PLEASE ADD THE MONTHLY INFORMATION TOGETHER TO PROVIDE AN ANNUAL TOTAL WATER PUMPED BY THE PUMPING PLANT INDICATED IN "A".

IF YOU HAVE MORE THAN ONE PUMP, PLEASE PROVIDE THE DATA FOR THE NEXT PUMP IN THE SPACE PROVIDED. IF YOU HAVE MORE THAN 5 PUMPS, PLEASE COMPLETE ADDITIONAL FORMS (BY MAKING COPIES OF THE SECOND PAGE OF THE FORM) UNTIL YOU HAVE REPORTED ALL PUMPS.

3. **CONSERVATION PRACTICES IMPLEMENTED** – PLEASE CHECK ALL BOXES THAT REPRESENT PRACTICES USED WITHIN YOUR OPERATION. THE RESULTS OF THE CHECKLIST WILL REPRESENT YOUR WATER USE CONSERVATION PLAN.
4. **DEADLINE** - PLEASE COMPLETE AND RETURN THIS FORM FOR ALL YOUR PUMPS BY JANUARY 31, 2005. A COMPLETED 2004 WATER USE CONSERVATION PLAN WILL INCLUDE:
 - A. FRONT PAGE WITH **FARM INFORMATION**.
 - B. COMPLETE **PUMP INFORMATION** FOR EVERY PUMP YOU OWN OR OPERATE WITH DATA FROM EACH MONTH FOR THE 2004 CALENDAR YEAR. (MAKE ADDITIONAL COPIES OF FORM IF YOU HAVE MORE THAN 5 PUMPS.)
 - C. THE **CONSERVATION PRACTICES IMPLEMENTED** PAGE WITH ALL BOXES CHECKED THAT REPRESENT PRACTICES IMPLEMENTED WITHIN YOUR OPERATION.